

Fig. 1

# SWNT Ropes

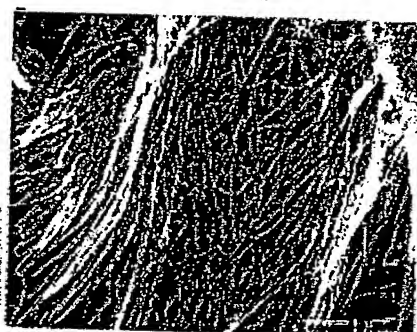


FIG. 2A

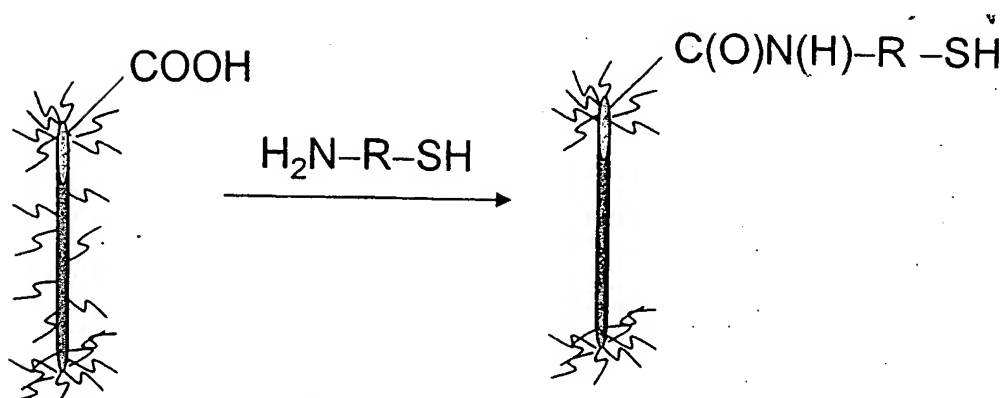
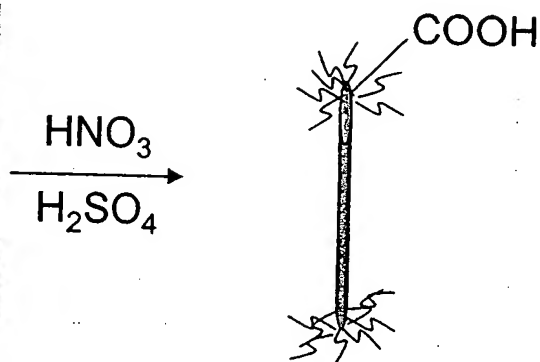


FIG. 2 B

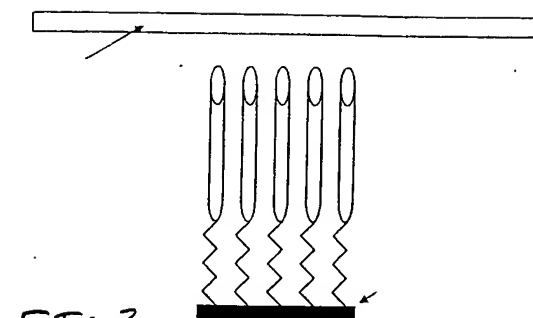


FIG. 3

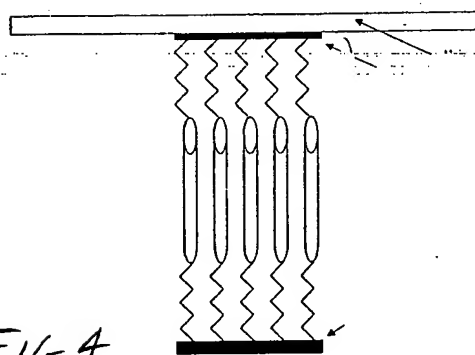


FIG. 4

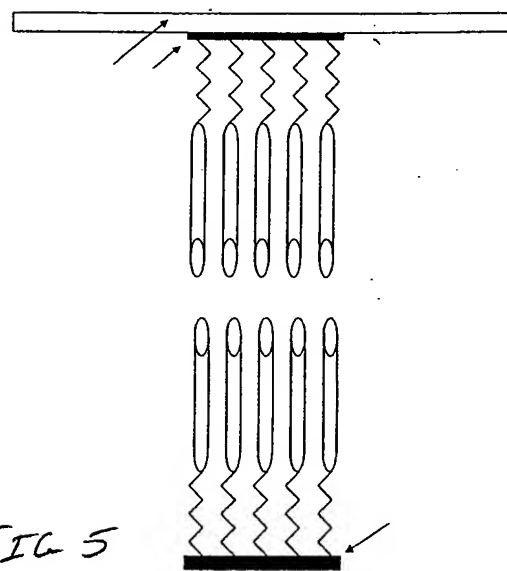


FIG. 5

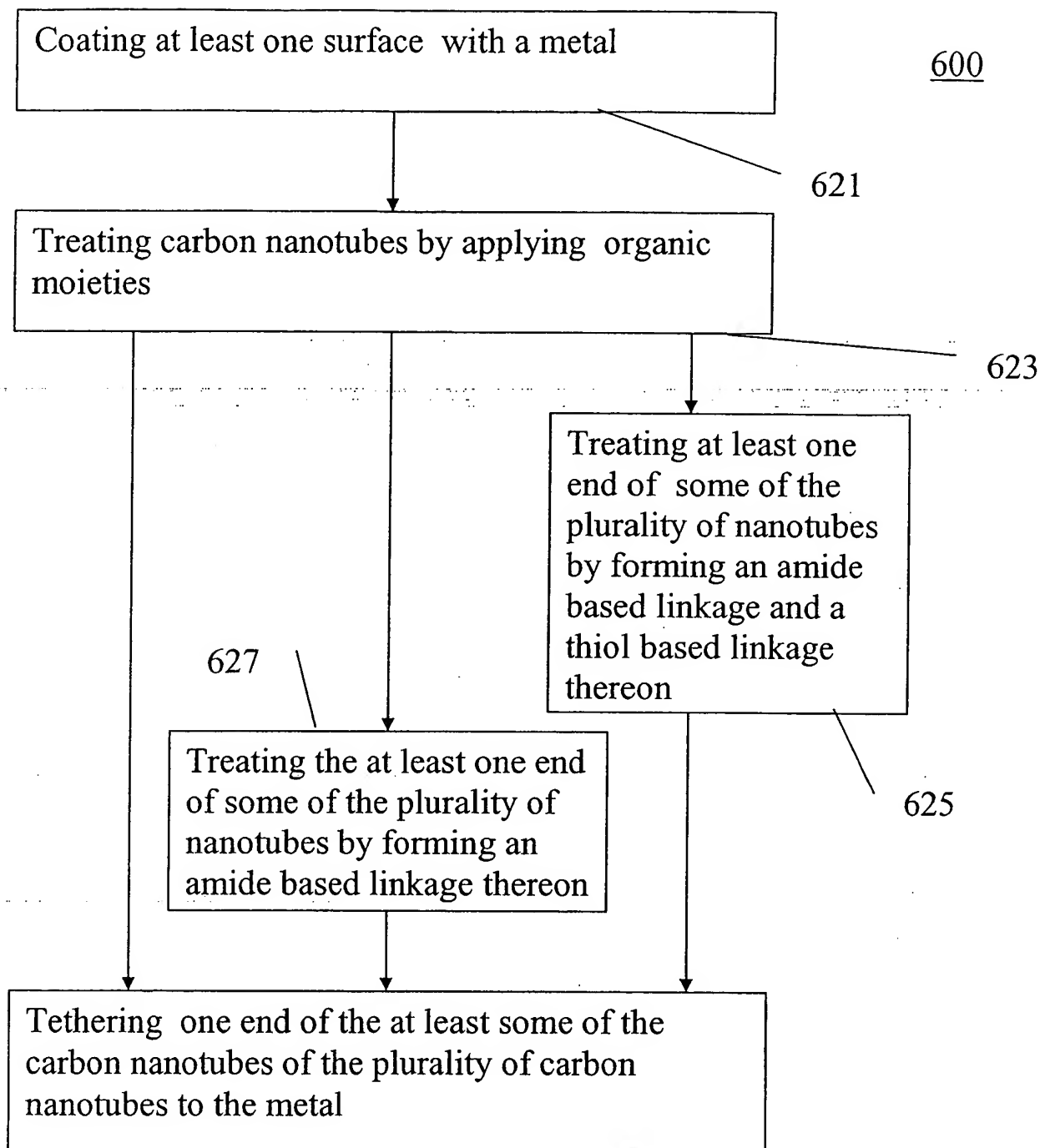


FIG. 6

Oxidizing nanotube ropes to cut them into short nanotubes with open ends having carboxyl linkages attached thereto

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Applying organic moieties to the open ends

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Tethering an end of the short nanotubes to a surface of a first object

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Placing a surface of a second object in contact with another end of the short nanotubes to form a thermal path between surface of the first object and the surface of the second object

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FIG. 7

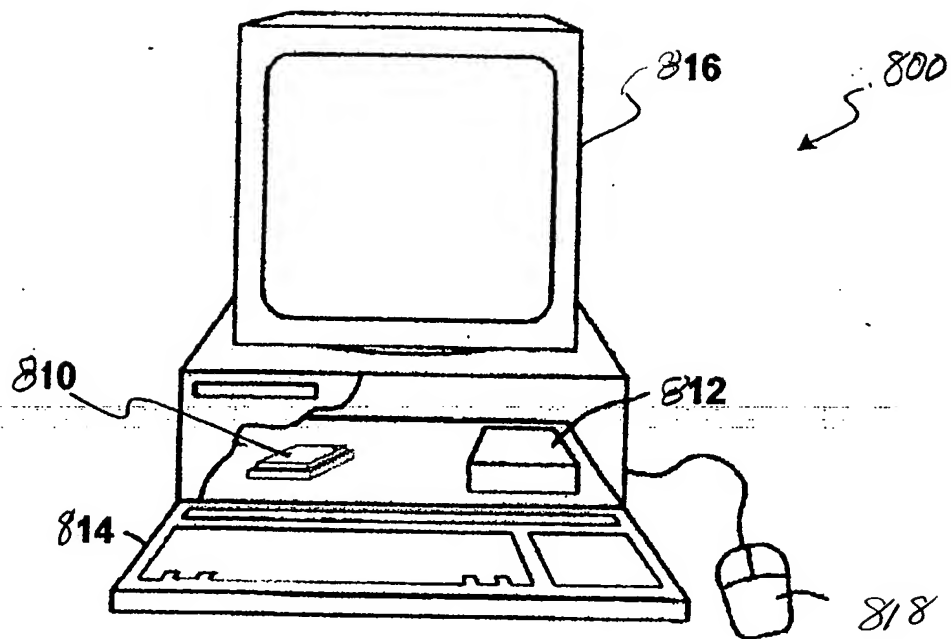


FIG. 8